

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL TO MAST ARM AT THE INTERSECTION OF US 13 (BUS) AND MD 250A/OLD VIRGINIA ROAD IN WORCESTER COUNTY.

US 13 (BUS.) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE EXISTING TRAFFIC SIGNAL SHALL BE REPLACED WITH A BASE-MOUNTED CABINET AND CONTROLLER WITH ALL THE NECESSARY EQUIPMENT AT THE INTERSECTION. THE INTERSECTION WILL OPERATE IN A FULLY-ACTUATED MODE USING 4 NEMA PHASES. THE US 13 (BUS) APPROACHES SHALL OPERATE CONCURRENTLY FOR NORTHBOUND AND SOUTHBOUND APPROACHES. THE MD 250A/OLD VIRGINIA ROAD APPROACHES SHALL OPERATE CONCURRENTLY FOR EASTBOUND AND WESTBOUND APPROACHES.

VIDEO DETECTION CAMERAS SHALL PROVIDE THE PRESENCE DETECTION FOR THE SIDE STREET APPROACHES.

PROJECT CONTACTS:

1. THE FOLLOWING ARE THE CONTACT PERSONS FOR THIS PROJECT:

MR. KENNETH CIMINO, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 677-4040

MR. GREG HOLSEY, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
PHONE: (410) 677-4020

MR. WAYNE WEICHMAN, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 677-4010

MR. BRUCE POOLE, UTILITY ENGINEER  
PHONE: (410) 677-4082

MR. RICHARD DAFF, SR., CHIEF - TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630

MR. EDWARD RODENHIZER, CHIEF - SIGNAL SHOP  
PHONE: (410) 787-7652

MR. SONNY BAILEY, CHIEF - SIGN SHOP  
PHONE: (410) 787-7676

THE POWER COMPANY REPRESENTATIVE:

DELMARVA POWER AND LIGHT COMPANY  
MR. RODNEY BAIN  
P.O. Box 250  
WESTOVER, MARYLAND 21871  
1(410)-860-6292

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL FROM SECTION MD 104.00 OF THE SHA BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES.

3. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410)787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
900000	1 EA	LOCAL CONTROLLER AND CABINET SIZE 6 W/ ALL NECESSARY EQUIPMENT HOUSED IN A BASE MOUNTED CABINET
900000	1 EA	VIDEO DETECTION INTERFACE UNIT 1-4 CAMERAS
900000	26 SF	FLAT SHEET ALUMINUM SIGNS CONSISTING OF:
	2 EA	D-3(1) (16"x VAR.) "Old Virginia Rd" DUAL-FACED, MAST-ARM MOUNTED
	1 EA	SHIELD ASSEMBLY SIGN: M1-5(5) "NORTH, RIGHT ARROW, BUSINESS US 13, SOUTH, LEFT ARROW" (24"x72") POLE-MOUNTED

EQUIPMENT LIST 'B'

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	2 CY	TEST PIT EXCAVATION
5001	30 EA	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKINGS SYMBOLS OR LEGENDS
5005	30 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6002	20 SF	5 INCH CONCRETE SIDEWALK
8001	27 EA	12 INCH LED SIGNAL HEAD SECTION
8012	1 EA	EMBEDDED METERED SERVICE PEDESTAL
8020	1 EA	MAST ARM POLE & 70' MAST ARM ANY 'T' DIMENSION
8023	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8028	4 EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8032	155 LF	4 CONDUCTOR OPTICOM CABLE
8036	35 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8038	200 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8040	28 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8042	70 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8045	40 LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
8046	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8047	1 EA	DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
8049	1 EA	OPTICOM NO. 721 DETECTOR EYE
8055	165 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8056	600 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8062	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT (ANY SIZE)

EQUIPMENT LIST 'C'

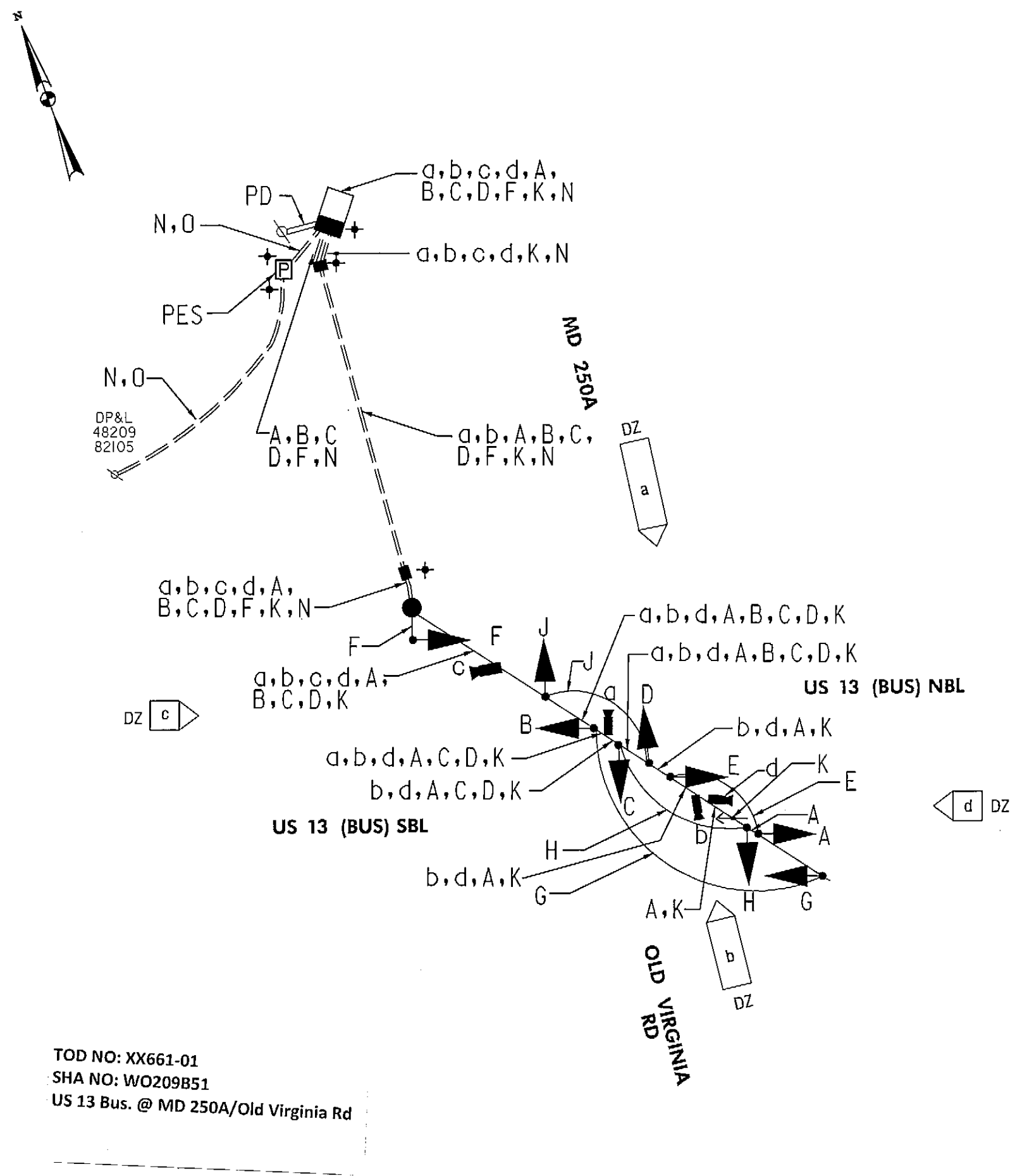
C. SHA SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL MATERIALS REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

1	2	3	4	5	6	7	8	9
(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)

Phase 2 & 6	G	G	G	G	G	R	R	R	R	←
2 & 6 Change	Y	Y	Y	Y	Y	R	R	R	R	→
Phase 4 & 8	R	R	R	R	R	G	G	G	G	←
4 & 8 Change	R	R	R	R	R	Y	Y	Y	Y	→
PRE-EMPT 1	G	G	G	G	G	R	R	R	R	←
PRE-EMPT 1 Clearance	G	G	G	G	G	R	R	R	R	→
PRE-EMPT 1 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	←
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	←

WIRING DIAGRAM



TOD NO: XX661-01  
SHA NO: WO209851  
US 13 Bus. @ MD 250A/Old Virginia Rd

WIRING KEY

A,B,C,D,F	- 7 CONDUCTOR NO. 14 AWG ELEC. CABLE
E,G,H,J	- 5 CONDUCTOR NO. 14 AWG ELEC. CABLE (JUMPER)
K	- 4 CONDUCTOR OPTICOM CABLE
a,b,c,d	- VIDEO DETECTION CAMERA CABLE
N	- NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
O	- 1 CONDUCTOR NO. 4 AWG THHN/THWN ELEC. CABLE
PES	- PROPOSED METERED PEDESTAL
DZ	- DETECTION ZONE
PD	- PROPOSED PHONE DROP
+	- GROUND ROD (3/4" DIA. x 10' LENGTH)



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 13 BUS (MARKET ST.) AT

POCOMOKE CITY, MD

GENERAL INFORMATION SHEET

SCALE \_\_\_\_\_ NTS \_\_\_\_\_ ADVERTISED DATE MAY 13, 2011 CONTRACT NO. XX6615168

DESIGNED BY JWA COUNTY WORCESTER  
DRAWN BY JKB LOGMILE 23B01300.50  
CHECKED BY MR/NR TMS NO. K-869  
F.A.P. NO. \_\_\_\_\_ TOD NO. \_\_\_\_\_

TS NO.1441E-GI DRAWING **SG - 2 OF 2** SHEET NO. **2 OF 2**

PLOTTED: Tuesday, May 31, 2011 AT 01:48 PM  
FILE: J:\DATA\K869\PSE\_DGN\SG-P002\_US13 (Bus) at MD 250.dgn

**CENTURY**  
ENGINEERING  
CONSULTING ENGINEERS - PLANNERS  
10710 GILROY ROAD  
HUNT VALLEY, MD 21031

Revision 'D' CEI # 101195.38